

I Mina' Trentai Dos Na Lihelaturan Guåhan

Resolutions Log Sheet

Resolution No.	Sponsor	Title	Date Intro	Date of Presentation	Date Referred	Committee / Ofc Referred	Date Adopted
189-32 (COR)	T.R. Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita, B.T. McCreadie	Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan For Guam in order to preserve the Lanyon landfill for generations to come.	7/17/13 2:14p.m.	Public Hearing 7/30/13, 10:00am	07/18/13	Sponsor	Committee Report Received 08/14/13



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

August 9, 2013

The Honorable Judith T. Won Pat, Ed.D.
Speaker
I Mina'trentai Dos Na Liheslaturan Guåhan
155 Hesler Place
Hagåtña, Guam 96910

VIA: The Honorable Rory J. Respicio
Chairperson, Committee on Rules *WR*

RE: Sponsor Report on Resolution No. 189-32 (COR)

Dear Speaker Won Pat:

Buenas yan Hafu Adai! Transmitted herewith is the Sponsor Report on **Resolution No. 189-32 (COR) – “Relative to Adopting Zero Waste as a Guiding Principal for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in Order to Preserve the Layon Landfill for Generations to Come.”**

Sponsor votes are as follows:

- 8 TO DO PASS
- 0 TO NOT PASS
- 0 TO REPORT OUT ONLY
- 0 TO ABSTAIN
- 0 TO PLACE IN INACTIVE FILE

Sincerely,

Benjamin J. Cruz
Vice Speaker Benjamin J.F. Cruz
Acting Committee Chairperson

Chairperson, Committee on Municipal Affairs, Tourism, Housing
and Hagåtña Restoration & Redevelopment Authority
Vice Chairperson, Committee on General Government Operations and Cultural Affairs
Vice Chairperson, Committee on the Guam US Military Relocation, Homeland Security, Veteran's Affairs and Judiciary
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WRB



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

SPONSOR REPORT ON

RESOLUTION NO. 189-32 (COR)

*(Sponsors: T.R. Muña Barnes, R.J. Respicio, J.T. Won Pat,
Ed. D., V.A. Ada, B.J. Cruz, A.A. Yamashita, B. McCreadie)*

**“Relative to Adopting Zero Waste as a
Guiding Principal for Sustainable
Materials Management and
Supporting the Creation and Adoption
of a Zero Waste Plan for Guam in
Order to Preserve the Layon Landfill
for Generations to Come.”**

Chairperson, Committee on Municipal Affairs, Tourism, Housing
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I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

August 9, 2013

MEMORANDUM

To: All Members

From: Vice Speaker Benjamin J.F. Cruz 
Acting Committee Chairperson

Subject: Sponsor Report on Resolution No. 189-32 (COR)

Buenas yan Hafa Adai! Transmitted herewith for your consideration is the Sponsor Report on Resolution No. 189-32 (COR) - "Relative to Adopting Zero Waste as a Guiding Principal for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in Order to Preserve the Layon Landfill for Generations to Come."

This report includes the following:

- Sponsor Vote Sheet
- Sponsor Report Digest
- Copy of Resolution No. 189-32 (COR)
- Public Hearing Sign-in Sheet
- Copies of Submitted Testimony on Resolution No. 189-32 (COR)
- Copy of COR Referral of Resolution No. 189-32 (COR)
- Notices of Public Hearing
- Copy of the Public Hearing Agenda

Please take the appropriate action on the attached vote sheet. Your attention to this matter is greatly appreciated. Should you have any questions or concerns, please do not hesitate to contact me. *Si Yu'os ma'åse'!*

Chairperson, Committee on Municipal Affairs, Tourism, Housing
and Hagåtña Restoration & Redevelopment Authority
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SPONSOR VOTING SHEET

Resolution No. 189-32 (COR) – “Relative to Adopting Zero Waste as a Guiding Principal for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in Order to Preserve the Layon Landfill for Generations to Come.”

	SIGNATURE	TO PASS	TO NOT PASS	TO REPORT OUT ONLY	TO ABSTAIN DUE TO CONFLICT OF INTEREST	TO PLACE IN INACTIVE FILE
LEGISLATIVE SECRETARY TINA ROSE MUÑA BARNES Chairperson		✓				
VICE SPEAKER BENJAMIN J.F. CRUZ Vice-Chairperson		✓				
SPEAKER JUDITH T. WON PAT, Ed.D. Member		✓				
SENATOR THOMAS C. ADA Member		✓				
SENATOR FRANK B. AGUON, JR. Member						
SENATOR VICENTE C. PANGELINAN Member		✓				
SENATOR RORY J. RESPICIO Member						
SENATOR DENNIS G. RODRIGUEZ, JR. Member						
SENATOR MICHAEL F.Q. SAN NICOLAS Member		✓				
SENATOR V. ANTHONY ADA Minority Member		✓				
SENATOR CHRISTOPHER M. DUEÑAS Minority Member						
SENATOR MICHAEL L'MTIACO Minority Member						
SENATOR BRANT McCREADIE Minority Member						
SENATOR THOMAS MORRISON Minority Member		✓				
SENATOR ALINE A. YAMASHITA, Ph.D. Minority Member						

Chairperson, Committee on Municipal Affairs, Tourism, Housing
and Hagåtña Restoration & Redevelopment Authority

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I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

SPONSOR REPORT DIGEST

I. OVERVIEW

Resolution No. 189-32 (COR) was introduced on July 17, 2013 by Senator Tina Rose Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita and B.T. McCreadie and was subsequently referred by the Committee on Rules to the Sponsor on July 18, 2013.

The Sponsor convened a public hearing on Resolution No. 189-32(COR) on Tuesday, July 30, 2013 at 10:00 AM in the Legislature's Public Hearing Room in Hagåtña.

Public Notice Requirements

Public Hearing notices were disseminated via e-mail to all Senators and all main media broadcasting outlets on Tuesday, July 23, 2013 (5-Day Notice), and again on Friday, July 26, 2013 (48-Hour Notice).

Senators Present

Vice Speaker B.J. F. Cruz, Acting Chairperson
Senator Aline Yamashita, Member
Senator Tommy Morrison, Member
Senator Frank Aguon, Jr., Member
Senator Brant McCreadie, Member

II. INTRODUCTION, SUMMARY OF TESTIMONY & DISCUSSION

Vice Speaker Cruz: Next on the agenda is Resolution No. 189-32 (COR) "Relative to adopting Zero Waste as a guiding principle for sustainable materials management and supporting the creation and adoption of Zero Waste Plan for Guam in order to preserve the Layon Landfill for generations to come". We have two people who have signed in to provide testimony, Mr. Mark Calvo, who is in support of, unfortunately had to leave but Mr. Palacios from Guam EPA is here. Mr. Palacios, please.

Mr. Eric Palacios: Good morning Mr. Vice Speaker, Senator Morrison, Senator McCreadie and Senator Yamashita. Thank you for allowing me the opportunity to testify in support of the resolution, which is absolutely a great thing for Guam. A lot of information in the resolution is in line with the initiatives and goals of the Guam Environmental Protection Agency. It outlines a lot of what we hope to accomplish as an agency and certainly it's important to this administration. Not just for our visitor industry, but equally important for the day to day living

Chairperson, Committee on Municipal Affairs, Tourism, Housing
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I Mina'Trentai Dos Na Liheslaturan Guåhan

Office of The Legislative Secretary

Tina Rose Muña Barnes

of every single resident on this island. It's important that we try to extend the life of our landfill and it's equally important to increase the recycling rate numbers. It's important to divert and find reuse potential for a lot of the materials that would otherwise end up in the landfill, which would be beneficial to many different sectors across the community. I'd like to thank the author and co-sponsors of the resolution for recognizing the importance of materials management on this island. Unfortunately it is a big issue on Guam as well as the region. We are not alone but one of the things that Guam EPA is actively doing is engaging with our neighbors throughout the region to try to identify ways to help ourselves and help each other as we navigate through our difficult times. I would also like to thank my team up at Guam EPA for the work that they do in helping to find solutions to this problem that we face as an island. They work closely with industry leaders and stake holders to trying to find a collective solution to this growing problem. One of the big initiatives that the agency has recently embarked on is the planning for the first Materials Management Conference which we are hoping to host early next year. We are hoping to bring in industry professionals from across the region as well as the mainland and hope to incorporate training opportunities along with presentations and other sessions that we are trying to put together. It would provide the island with tremendous educational opportunity to learn about emerging technologies and best management practices and other innovations that would help the island move forward. With that, I would like to thank you all again.

Vice Speaker Cruz: Thank you Mr. Palacios. I will note for the record that Mr. Mark Calvo presented the committee with an executive summary of a blueprint for zero waste on Guam report. It will be appended to the committee report because it distinctively describes everything that needs to be done. I'm sure it was done by the group sitting behind you and I'd like to thank them for their hard work. This resolution is duly heard and make sure that you thank your staff for all their hard work. Thank you!

III. FINDINGS & RECOMMENDATIONS

The Sponsor hereby reports out **Resolution No. 189-32 (COR)**, with the recommendation **TO PASS**.

Chairperson, Committee on Municipal Affairs, Tourism, Housing
and Hagåtña Restoration & Redevelopment Authority

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I MINA' TRENTAI DOS NA LIHESLATURAN GUÅHAN
2013 (FIRST) Regular Session

Resolution No. 189-32(COR)

Introduced By:

T.R. Muña Barnes
R. J. Respicio
J.T. Wonpat
V.A. Ada
B.J. Cruz
A.A. Yamashita
B. McCreadie
T. Morrison

Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan For Guam in order to preserve the Lanyon landfill for generations to come.

1 **BE IT RESOLVED BY THE COMMITTEE ON RULES OF I MINA'**
2 **TRENTAI DOS NA LIHESLATURAN GUÅHAN:**

3 **WHEREAS,** I Liheslaturan Guåhan recognizes and acknowledges the clear
4 connection between waste reduction, recycling, resource recovery and beneficial reuse
5 issues and the need to change unsustainable consumption and production patterns
6 while protecting and managing the natural resource base of economic and social
7 development; and

8 **WHEREAS,** I Liheslaturan Guåhan finds that based on recent estimates, the
9 expected life of the landfill will be 35-40 years, with the Military as a customer and 45-
10 50 years without the Military. The life span of the landfill can be extended only with

1 effective implementation of **waste reduction, recycling, resource recovery** and
2 **beneficial reuse programs**; and

3 **WHEREAS**, I Liheslaturan Guåhan recognizes that its work in establishing the
4 Recycling Revolving Fund, Recycling Enterprise Zones at the Port Authority of Guam,
5 and the Guam Beverage Recycling Act of 2010 were all steps towards the eventual
6 establishing of a sustainable zero waste community for Guam; and

7 **WHEREAS**, developing and implementing a zero waste strategy should be
8 measured, evaluated and achieved by utilizing current and accepted methodologies,
9 such as environmental systems management and life cycle analysis, to support science
10 based policies and operations; and

11 **WHEREAS**, Guam’s limited and valuable land resource and fragile environment
12 must be preserved and protected. The protection of the environment, both terrestrial
13 and aquatic, stimulation of the economy, and distribution of equity can be achieved by
14 promoting waste reduction, recycling, resource recovery and beneficial reuse through
15 Zero Waste practices in the public and private sectors; and

16 **WHEREAS**, the use of the term “zero waste” includes “Zero Solid Waste”, “Zero
17 Hazardous Waste”, “Zero Toxics” and “Zero Emissions.” The goals of “zero waste”
18 embody the need for a closed-looped waste management system, in which waste is a
19 sign of inefficiency and the entire concept of waste should be eliminated; and

20 **WHEREAS**, waste should be thought of as a “residual product” or simply a
21 “potential resource” for beneficial reuse to counter the basic acceptance of waste as a
22 normal course of events. Zero Waste strategies consider the entire life-cycle of products,
23 processes and systems in the context of a comprehensive systems understanding of our
24 interactions with nature and the search for inefficiencies at all stages; and

25 **WHEREAS**, Zero Waste is a community-based model that aims to eliminate or
26 minimize landfill disposal by the application of simple solutions and sustainable
27 materials management systems that are healthy for our people, and our island; and

1 **WHEREAS**, The Association of State and Territorial Solid Waste Management
2 Officials has endorsed developing a Zero Waste Strategy, a significant component in
3 implementing a comprehensive (waste) materials management program for small
4 island developing states like Guam through both regulatory and cooperative
5 environmental governance; and

6 **WHEREAS**, Because of its mission the Solid Waste Management Authority will
7 have the primary responsibility for implementing the Guam Zero Waste Plan and
8 developing the outreach and educational components required to educate and inform
9 the public; and

10 **WHEREAS**, the Guam Environmental Protection Agency and its Division of Air
11 and Land should work collaboratively with the Solid Waste Management Authority,
12 and the Office of the Governor to synchronize its permitting process so that it will
13 reflect and incorporate Zero Waste principals into all of permitting and monitoring
14 functions and systems; and

15 **WHEREAS**, Zero Waste is a critical stepping stone to other necessary steps in the
16 effort to protect health, improve equity, and reach sustainability. Zero Waste can be
17 linked to sustainable agriculture, permaculture, architecture, energy, industrial,
18 economic and community development; and

19 **WHEREAS**, a Zero Waste strategy supports all three of the generally accepted
20 goals of sustainability, that is, environmental protection as well as economic and social
21 well-being. Environmental protection is enhanced by reducing (ideally to zero)
22 hazardous and solid wastes to nature and by reducing the need for energy generation
23 and hydrocarbon extraction. Economic well-being is improved by enabling
24 organizations to identify inefficiencies in processes, products and services and thereby
25 to find cost-saving solutions to them.

1 **WHEREAS**, Social well-being is enhanced through efficiency improvements that
2 allow more resources to be available for all. In addition, more complete use of “wastes”
3 may additionally create jobs in return logistics and reprocessing activities; and

4 **WHEREAS**, I Liheslaturan Guåhan finds that the concept of “sustainable
5 materials management,” within the last several years, has increasingly captured the
6 attention of environmental managers and the public. As recent discussions have
7 focused on energy efficiency, resource conservation, the release of greenhouse gases,
8 climate change and toxins, it has become increasingly clear that the way we manage
9 and use materials, across their full life cycle, has a critical effect on the world’s
10 environmental health; and

11 **WHEREAS**, the United States Environmental Protection Agency has described
12 the importance of how we manage materials in its report, Sustainable Materials
13 Management: The Road Ahead (2009). In the report, EPA argued that, to ensure a
14 sustainable society, we need to rethink how we manage materials – and indeed which
15 materials we use by looking at the full life cycle of materials from extraction to
16 production to use to disposal; and

17 **WHEREAS**, I Liheslaturan Guåhan is committed to protecting and enhancing
18 environmental quality now and for future generations; and

19 **WHEREAS**, over one hundred thousand of tons of materials are generated in
20 Guam each year by residents, businesses, organizations, and institutions, and
21 approximately 85% of this amount is sent for landfill disposal; and

22 **WHEREAS**, the placement of materials in landfills can cause damage to human
23 health, wastes natural resources, and irresponsibly transfers liabilities to future
24 generations; and

25 **WHEREAS**, waste prevention, reuse, recycling, and composting are material
26 management options that conserve resources while reducing environmental impacts;
27 and

1 **WHEREAS**, increased recycling, permaculture and composting will increase the
2 cost-efficiency of local publicly supported recycling facilities and programs; and

3 **WHEREAS**, increased recycling saves energy, water, natural resources, reduces
4 air and water pollution, reduces the damage caused by extracting resources from the
5 environment, and reduces the need for landfill facilities; and

6 **WHEREAS**, a resource recovery based economy will sustain, on a per-ton basis,
7 up to ten times more jobs than land filling or incineration, and these jobs will be more
8 productive and meaningful; and

9 **WHEREAS**, increasingly, U.S. and international governments and organizations
10 are adopting the policy that the financial responsibility of collecting, recycling, and
11 disposing of materials belongs with producers and importers; and

12 **WHEREAS**, recognizing that voluntary recycling goals have not, and in all
13 probability cannot, achieve waste elimination; and

14 **WHEREAS**, the Zero Waste philosophy accepts that the earth's ability to support
15 life is finite and that natural resources must be used in the most efficient and
16 sustainable way possible; and

17 **WHEREAS**, the guiding principles of Zero Waste are: managing resources
18 instead of waste; conserving natural resources through waste prevention and recycling;
19 turning discarded resources into jobs and new products instead of trash; promoting
20 products and materials that are durable and recyclable; and discouraging products and
21 materials that can only become trash after their use; and

22 **WHEREAS**, I Liheslaturan Guåhan calls for the creation and implementation of a
23 Guam Zero Waste Plan; and now therefore be it

24 **RESOLVED**, that the Committee on Rules of *I Mina' Trentai Dos Na*
25 *Liheslaturan Guåhan* does hereby, on behalf of the people of Guam, call for the
26 Guam Zero Waste Plan to be designed to achieve the initial goal of increasing waste
27 diversion for the Government of Guam and for the island as a whole, to 60% or better

1 by the year 2016. The ultimate goal of the Guam Zero Waste Plan is to eliminate waste
2 by 2022, thereby preserving the current landfill for generations to come, before having
3 to spend the hundreds of millions of dollars in resources needed to build another
4 landfill, and be it further

5 **RESOLVED**, that the Speaker and the Chairperson of the Committee on
6 Rules certify, and the Legislative Secretary attest to, the adoption hereof, and that
7 copies of the same be thereafter transmitted to the following officials: the President
8 of the Recycling Association of Guam, the Administrator of the Guam
9 Environmental Protection Agency, to the Administrator of the Air and Land
10 Division of the Guam Environmental Protection Agency, to the Administrator,
11 Operations Manager and members of the Board of the Solid Waste Management
12 Authority, to the Special Assistant to the Governor of Guam for the Office of the
13 Military Build Up, to the Western Regional Office of Economic Adjustment, of
14 the Department of Defense, to the Vice President of Matrix Consulting, to the
15 members of the Board of the Association of the State and Territorial Solid Waste
16 Managers, to the Administrator of Region Nine of the United States Environmental
17 Protection Agency, to the President of the Association of Pacific Island
18 Legislatures, to the Pacific Island Regional Recycling Initiative of the Council of
19 Micronesia Chief Executives, to the Director-General of the Secretariat of the
20 Pacific Regional Environment Programme, to the Office of Congresswoman
21 Bordallo, and to the Honorable Edward J.B. Calvo, I Maga'lahaen Guåhan.

I Mina'trentai Dos Na Liheslaturan Guåhan

Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority

Office of Senator Tina Rose Muña Barnes

Public Hearing Sign-in Sheet

Tuesday, July 30, 2013 • 9:00 a.m. • Public Hearing Room

Resolution No. 189-32 (LS) - "Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in order to preserve the Lanyon Landfill for generations to come

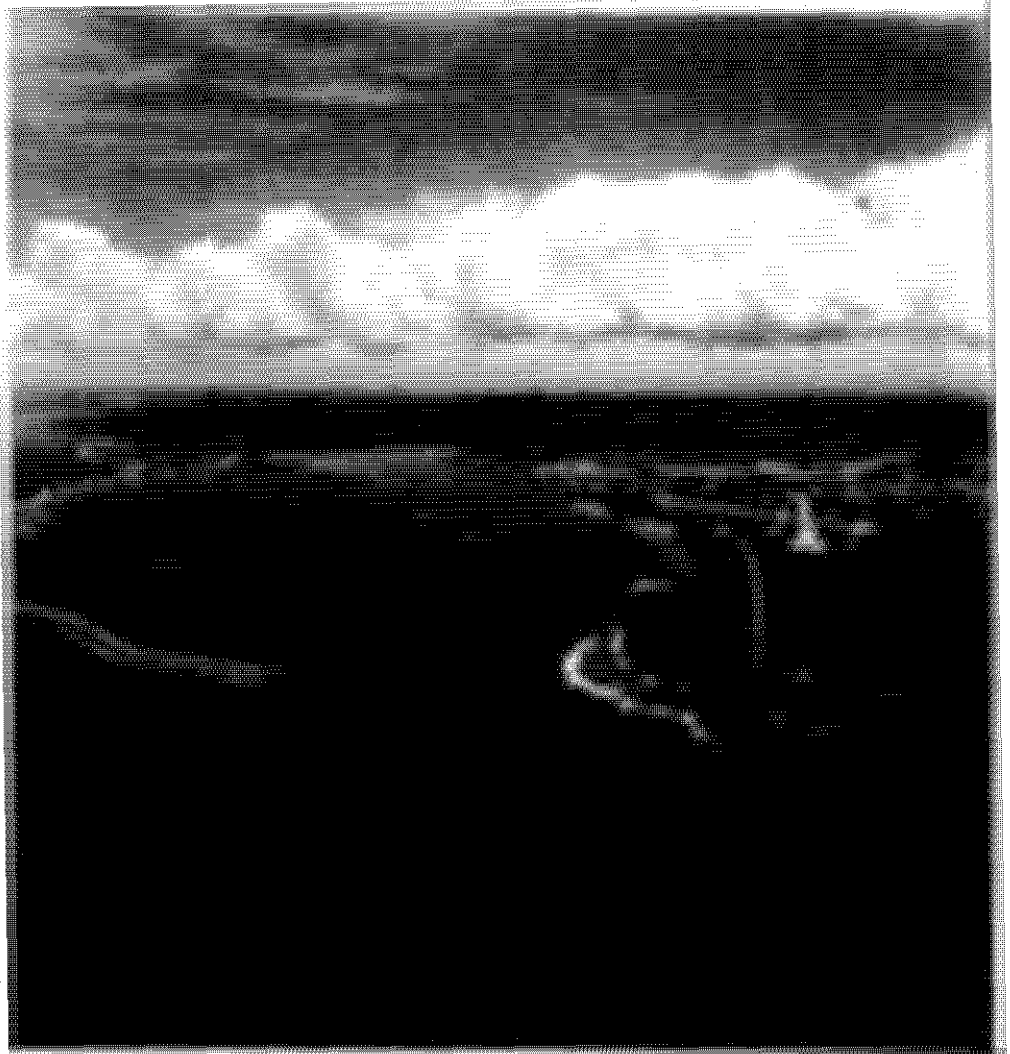
- *Sponsors: T.R. Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita, B.T. McCreadie*

NAME	AGENCY OR ORGANIZATION (IF ANY)	SUPPORT? OPPOSE?	WRITTEN TESTIMONY	ORAL TESTIMONY	CONTACT NUMBER	EMAIL ADDRESS
Mark G. Calvo	Ofc of the Gov	Support	Yes		686-1429	mark.calvo@guam.gov
Eric Palacios	GEPA	Support	YES	YES	700-4259	



ONE GUAM

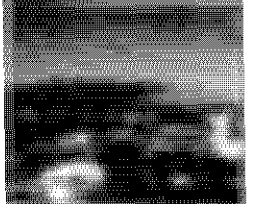
ONE ISLAND ONE PEOPLE ONE FUTURE



REACHING FOR ZERO:

A BLUEPRINT FOR ZERO WASTE ON GUAM

The Chinese philosopher Lao-tzu said "A journey of a thousand miles begins with a single step." This "Blueprint for Zero Waste" provides a critical first step as well as a path to help the Government of Guam (GovGuam) and people of Guam realize a vision of Zero Waste to preserve the environment for Guam's children and the future.



EXECUTIVE SUMMARY

Visioning

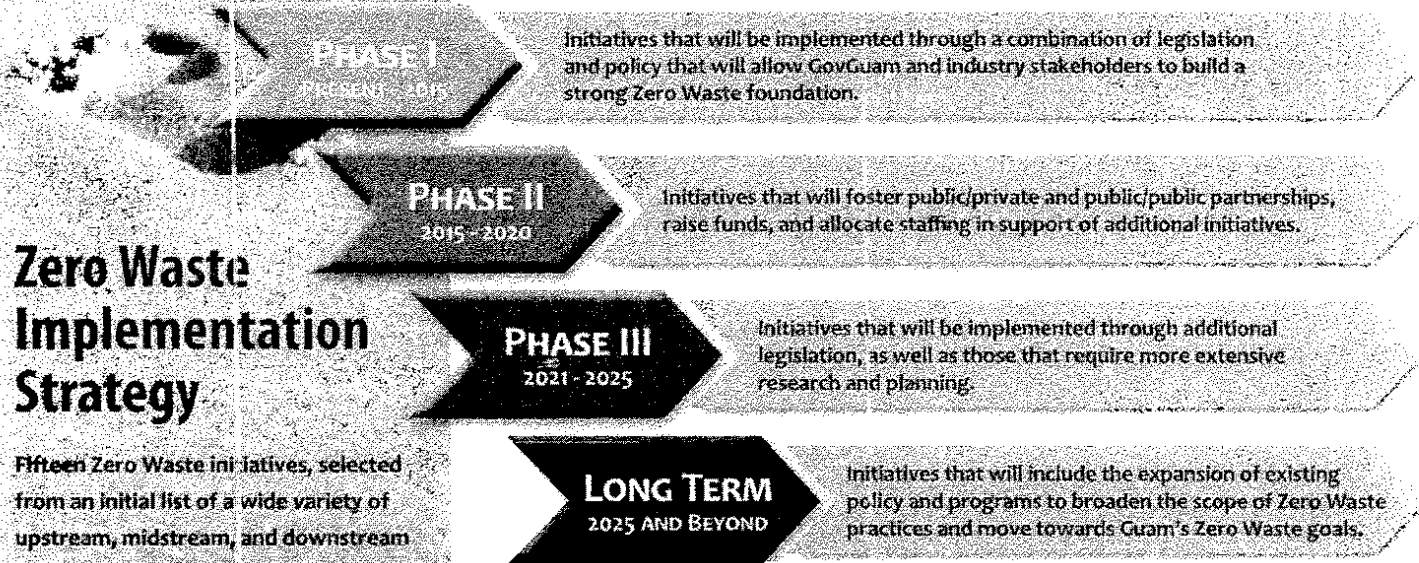
The most important part of any long journey is a vision for the future. On February 7, 2012, representatives of the Office of the Governor of Guam and key public and private-sector solid waste stakeholders met at the Ricardo J. Bordallo Governor's Complex in Adelup for a Zero Waste Visioning Session. During the Visioning Session, stakeholder input was sought regarding solid waste diversion opportunities and Zero Waste options with respect to the development of an overall Zero Waste Plan for Guam.

Key Visioning Objectives

During the Visioning Session, Stakeholders emphasized the importance of implementing the following key strategies:

- **Develop targets:** Work with the Guam Legislature, GovGuam agencies, and Guam Council of Mayors to put a framework in place to achieve Zero Waste.
- **Walk the talk:** One of the most important keys to achieving the goal of Zero Waste is leadership. Adopt legislation and policies that favor Zero Waste.
- **Use incentives in the right place:** A continuous and constantly adapting flow of initiatives, solutions, and ideas are going to be required to achieve the goal of Zero Waste.
- **Develop infrastructure for recycling and resource recovery:** Although some initial help will be needed for GovGuam to get a Zero Waste Program operational, if the incentives are in the right place, the private-sector and markets will assist in building and operating the infrastructure.
- **Implement a marketing campaign:** Publicize the Zero Waste Program to educate, engage, and inspire the community.
- **Develop an effective enforcement process:** Fund the necessary enforcement personnel, educate volunteers and follow through with fines and penalties.

Implementation Phasing Timeline



Zero Waste Implementation Strategy

Fifteen Zero Waste initiatives, selected from an initial list of a wide variety of upstream, midstream, and downstream source diversion options suggested by stakeholders on Guam, are evaluated in the Zero Waste Plan. From a practical perspective, the legislation, policies, programs, and infrastructure needed to implement the fifteen initiatives described in the Zero Waste Plan cannot be implemented all at once. Therefore, the use of a phased approach over a 20-year planning period is recommended to implement an island-wide Zero Waste Program.



The development of a well-integrated Zero Waste system on Guam will be an evolving process. There will be political, technical, marketing, financial, and educational issues to address at each step.

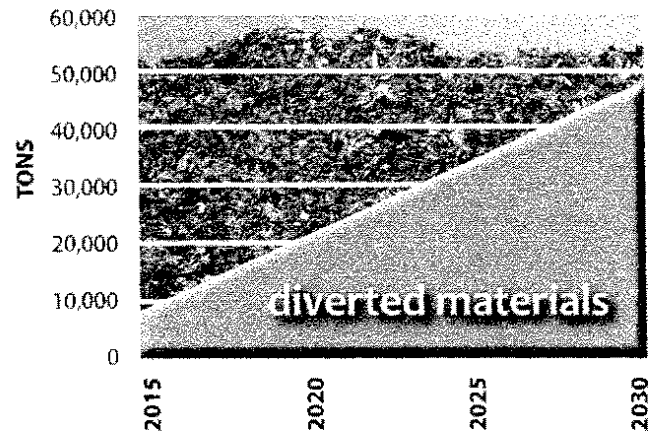
Landfill Diversion Potential

Diversion of landfill waste, which is an over-arching goal of Guam's Zero Waste Plan, will be achieved with the implementation of the initiatives detailed in the plan. Typically, diversion successes

**21-37%
of materials
diverted**

increase as new or expanded programs mature due to increased operational efficiencies, greater public participation/acceptance, and established markets.

A conservative estimate of the materials diverted from landfilling ranges from approximately 8,700 tons in 2015 (a 21% diversion rate) to 48,400 tons in 2030 (a 37% diversion rate). In the United States, the national landfill diversion rate is 34%. Many communities have achieved over 50% landfill diversion. San Francisco, a leading Zero Waste community, has achieved 80% landfill diversion. Achievement of similar percentages on Guam are likely to be tempered by low overall quantities (which increases unit costs and limits market leverage), limited local markets, and high over-seas transportation costs.



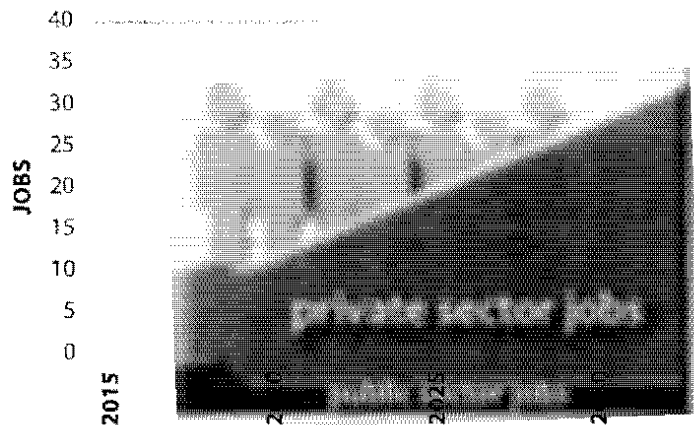
Job Creation Potential and Small Business Opportunities

Zero Waste is an economic development tool as well as an environmental tool. Reuse, recycling, composting, and source reduction offer direct and substantial development opportunities. Both public and private sector jobs, many of which are small business

**up to
37 new
jobs**

opportunities, will be created with the implementation of a Zero Waste Program for Guam. Up to four full-time equivalent (FTE) GovGuam (i.e., public sector) jobs will be created for the duration of the Zero Waste planning period; as many as seven FTEs may be needed during the first two years of implementing the Zero Waste Program. In

the private sector, as many as seven new FTEs will be created in 2015, with up to thirty-seven FTEs by 2030 for materials processing on Guam. Additional off-island jobs will also be created for secondary processing and remanufacturing.



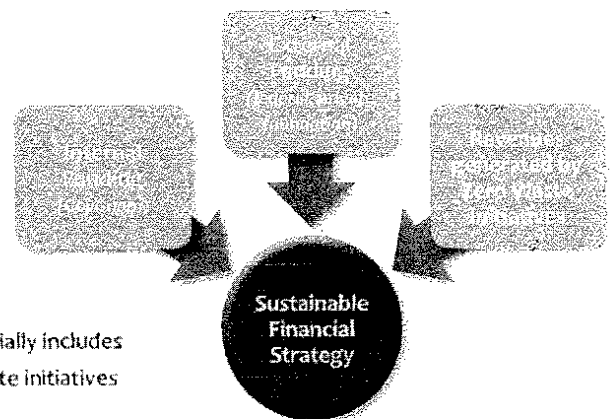
Funding Strategy

The use of a combination of internal (i.e., GovGuam) and external (i.e., federal and private foundation) funding sources to build a sustainable financial strategy is recommended. Initially, from a practical perspective, a combination of a landfill tipping fee surcharge and a Gross Receipts Tax (GRT)

**Projected
savings by
2030 are
almost \$4M
per year**

Rate surcharge is a potentially reasonable approach to funding a Zero Waste Program for Guam. Over time, the use of a more diversified funding strategy, which potentially includes the addition of revenues generated by the various Zero Waste initiatives implemented and grant awards, should be phased-in.

The long-term savings and economic benefits from implementing a Zero Waste program will eventually dwarf the initial investment. However, while the long-term savings of Zero Waste programs may be significant, many of the program initiatives require several years of investment before savings can be achieved.

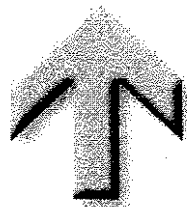


Positive Economic Impacts

Programmatic-level economic impacts from the implementation of a Zero Waste Program on Guam were developed using the initiatives evaluated in the Guam Zero Waste Plan. Estimated costs include potential expenses for program development and implementation, potential revenues generated from materials resale, and avoided landfill disposal costs. While the avoidance of landfill disposal costs does not represent a tangible revenue stream, these savings go directly to the bottom line of any solid waste management program, and are one of the primary long-term benefits of implementing a Zero Waste Program. The economic impacts shown in the following table are feasibility-level estimates for planning purposes only and will vary depending on implementation timing, sequencing of initiatives, and actual economic conditions existing in the marketplace at the time of implementation.

	Baseline	2015	2020	2025	2030
PHASE I (Present through 2015)					
Estimated Potential Revenues	\$-0-	\$134,600	\$179,800	\$273,700	\$226,700
Estimated Avoided Landfill Costs	\$-0-	\$1,204,000	\$2,512,200	\$4,027,400	\$4,411,900
Estimated Program Costs	\$1,476,700	\$725,800	\$739,200	\$746,700	\$746,700
Net Estimated Revenue (Cost)	↓ \$1,146,700	↑ \$612,800	↑ \$1,593,200	↑ \$3,554,400	↑ \$3,891,900
PHASE II (2016 through 2020)					
Estimated Potential Revenues	\$-0-	\$-0-	\$106,700	\$263,700	\$347,100
Estimated Avoided Landfill Costs	\$-0-	\$-0-	\$155,600	\$384,900	\$412,900
Estimated Program Costs	\$-0-	\$-0-	\$3,383,500	\$677,400	\$1,010,600
Net Estimated Revenue (Cost)	\$-0-	\$-0-	↓ \$3,123,100	↓ \$28,800	↓ \$250,600
PHASE III (2021 through 2025)					
Estimated Potential Revenues	\$-0-	\$-0-	\$-0-	\$65,000	\$187,300
Estimated Avoided Landfill Costs	\$-0-	\$-0-	\$-0-	\$308,500	\$602,700
Estimated Program Costs	\$-0-	\$-0-	\$-0-	\$151,100	\$87,400
Net Estimated Revenue (Cost)	\$-0-	\$-0-	\$-0-	↑ \$92,400	↑ \$328,000

Feasibility-level costs are for planning purposes only and are shown in 2013 dollar values. Summary of revenues/costs for all Zero Waste initiatives are by Phase and Milestone Year. Detailed information regarding suggested phasing of initiatives is presented in the Guam Zero Waste Plan Volume I, Section 5. Detailed cost estimates for each Zero Waste Initiative are provided in Volume II.



**Zero Waste
on Guam
is Revenue
Positive**

The information presented in the table above clearly demonstrates that when both potential estimated revenues (i.e., material sales) and avoided landfill costs are considered, the aggregated initiatives expected to be implemented by GovGuam in Phase I and III are revenue positive throughout the planning period, with the exception of initially capitalizing on large initiative. The Phase II initiatives, which will most likely be developed by the private and non-profit sectors, will need to off-set capital and annual cost expenditures with facility tip fees, grant funding and other resources.



This study was prepared under contract with the Government of Guam, with financial support from the Office of Economic Adjustment, Department of Defense. The content reflects the views of the Government of Guam and the jurisdictions, agencies and organizations participating in the JLUS program, and does not necessarily reflect the views of the Office of Economic Adjustment.



COMMITTEE ON RULES

I Mina'trentai Dos na Liheslaturan Guåhan • The 32nd Guam Legislature

155 Hesler Place, Hagåtña, Guam 96910 • www.guamlegislature.com

E-mail: roryforguam@gmail.com • Tel: (671)472-7679 • Fax: (671)472-3547

Senator
Rory J. Respicio
CHAIRPERSON
MAJORITY LEADER

Senator
Thomas C. Ada
VICE CHAIRPERSON
ASSISTANT MAJORITY LEADER

Senator
Vicente (Ben) C. Pangelinan
Member

Speaker
Judith T.P. Won Pat, E.L.D.
Member

Senator
Dennis G. Rodriguez, Jr.
Member

Vice-Speaker
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Member

Legislative Secretary
Tina Rose Muña Barnes
Member

Senator
Frank Blas Aguon, Jr.
Member

Senator
Michael F.Q. San Nicolas
Member

Senator
V. Anthony Ada
Member
MINORITY LEADER

Senator
Aline Yamashita
Member

July 19, 2013

MEMORANDUM

To: **Rennae Meno**
Clerk of the Legislature

Attorney Therese M. Terlaje
Legislative Legal Counsel

From: **Senator Rory J. Respicio**
Majority Leader & Rules Chair

Subject: **Referral of Resolution No. 189-32 (COR)**

As Chairperson of the Committee on Rules, I am forwarding my referral of Resolution No. 189-32 (COR). Please ensure that the subject resolution is referred, in my name, to the respective sponsor, as shown on the attachment.

I also request that the same be forwarded to all Senators of *I Mina'trentai Dos na Liheslaturan Guåhan*.

Should you have any questions, please feel free to contact our office at 472-7679.

Si Yu'os ma'åse!

(1) Attachments

I Mina' Trentai Dos Na Liheslaturan Guåhan

Resolutions Log Sheet

Resolution No.	Sponsor	Title	Date Intro	Date of Presentation	Date Referred	Committee / Ofc Referred	Date Adopted
189-32 (COR)	T.R. Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita, B.T. McCreadle	Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan For Guam in order to preserve the Lanyon landfill for generations to come.	7/17/13 2:14p.m.		07/18/13	Sponsor	



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

July 23, 2013

Memorandum

TO: All Members/All Senators

FROM: Senator Tina Rose Muña Barnes

SUBJECT: First Notice of Confirmation/Public Hearing
Tuesday, July 30, 2013

Hafa Adai! The Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority will be conducting a public hearing on **Tuesday, July 30, 2013** at the Public Hearing Room beginning at 9:00 a.m. This hearing is scheduled to receive public testimony on the following:

- The appointment of **Mr. John Ilaó**, Member, Guam Housing & Urban Renewal Authority Board of Directors

- Term length – Unexpired term of Commissioner Ricardo Calvo from March 31, 2011 to March 30, 2016

- **Bill No. 145-32 (LS)** – “An act relative to naming the Malesso Pier Park the “Plasan Beterånon Mansendålon Malesso’ (Veteran Sons and Daughters of Malesso Park)” in honor and special recognition of the men and women from Malesso who has served in the U.S. Armed Forces, and in acknowledgement of all Guam Veterans; through adding a new § 849.5.1 to Article 1, Chapter 8, of Title 1, GCA”– *Sponsors: Frank B. Aguon, Jr., T.A. Morrison, T.C. Ada*

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Chairperson, Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority

Vice Chairperson, Committee on General Government Operations and Cultural Affairs
155 Hesler Place Hagåtña, Guam 96910 [Tel: 671-472-3455/6 Fax: 671-472-3400] www.tinamunabarnes.com



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

Page 2

July 23, 2013

First Notice of Confirmation/Public Hearing

Pursuant to 5 GCA, Chapter 8, Subsection 8107, public hearing notices should be sent on *Tuesday, July 23, 2013*, which is five (5) working days prior and a second public notice on *Friday, July 26, 2013*, which is forty-eight (48) hours prior.

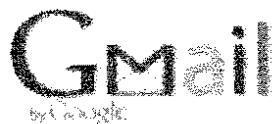
Written testimonies may be submitted on the day of, prior to, or up to ten days after the public hearing to the Office of Senator Tina Rose Muña Barnes, 155 Hesler Place, Hagatña Guam 96910, via facsimile to 472-3400 or via email to senator@tinamunabarnes.com. We comply with Title II of the Americans with Disabilities Act (ADA). Should you require assistance or accommodations please contact Jeanenne Condero or John Blas from our office at 472-3455/6 or via email at jean@tinamunabarnes.com or jblas@tinamunabarnes.com. I look forward to your attendance and participation.

Si Yu'os Ma'åee'!

cc: Sergeant-At-Arms/Protocol/AV Clerk of the Legislature
MIS All Media

Chairperson, Committee on Municipal Affairs, Tourism, Housing and Hagatña Restoration and Redevelopment
Authority

Vice Chairperson, Committee on General Government Operations and Cultural Affairs
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Jean Cordero <jean@tinamunabarnes.com>

First Notice of July 30, 2013 Public Hearing

2 messages

Jean Cordero <jean@tinamunabarnes.com>

Tue, Jul 23, 2013 at 9:55 AM

To: phnotice@guamlegislature.org

Cc: Tom Unslog <sgtarms@guamlegislature.org>, Guam Legislature Clerks Office <clerks@guamlegislature.org>, amier@mvguam.com, clynt@spbguam.com, dcristost@guampdn.com, dmgeorge@guampdn.com, Jon Anderson <editor@mvguam.com>, jtyquiengco@spbguam.com, kstokish@gmail.com, life@guampdn.com, mabuhaynews@yahoo.com, mindy@kuam.com, news@guampdn.com, news@spbguam.com, nick.delgado@kuam.com, rlimtiaco@guampdn.com, sabrina@kuam.com, slimtiaco@guampdn.com, Gerry Partido <gerry@mvguam.com>, Jason Salas <jason@kuam.com>, "mpieper@guampdn.com" <mpieper@guampdn.com>, "officemanager@hitradio100.com" <officemanager@hitradio100.com>, "ricknauta@hitradio100.com" <ricknauta@hitradio100.com>, Telo Taitague <telo.taitague@guam.gov>, Stephanie Flores <sgflores@tinamunabarnes.com>, John Blas <jblas@tinamunabarnes.com>, David Bell <David@tinamunabarnes.com>, Senator Tina Rose Muna Barnes <senator@tinamunabarnes.com>

Hafa adai! Please see attached memorandum of First Notice for July 30, 2013 Public Hearing to begin at 9:00 a.m. in the Public Hearing Room. Should you have any questions, please feel free to contact our office at any of the numbers listed below. Thank you and have a wonderful day!

July 23, 2013

Memorandum

TO: All Members/All Senators

FROM: Senator Tina Rose Muña Barnes

SUBJECT: First Notice of Confirmation/Public Hearing

Tuesday, July 30, 2013

Hafa Adai! The Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority will be conducting a public hearing on **Tuesday, July 30, 2013** at the Public Hearing Room beginning at 9:00 a.m. This hearing is scheduled to receive public testimony on the following:

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- Term length – Unexpired term of Commissioner Ricardo Calvo from March 31, 2011 to March 30, 2016

- **Bill No. 145-32 (LS)** – “An act relative to naming the Malessó Pier Park the “Plasan Beteranon Manser dâlon Malessó” (Veteran Sons and Daughters of Malessó Park)” in honor and special recognition of the men and women from Malessó who has served in the U.S. Armed Forces, and in acknowledgement of all Guam Veterans; through adding a new § 849.5.1 to

Article 1, Chapter 8, of Title 1, GCA"– *Sponsors: Frank B. Aguon, Jr., T.A. Morrison, T.C. Ada*

• **Resolution No. 189-32 (COR)** – "Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in order to preserve the Lanyon Landfill for generations to come – *Sponsors: T.R. Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita, B.T. McCreadie*

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Si Yu'os Ma'åse'!

cc:	Sergeant-At-Arms/Protocol/AV	Clerk of the Legislature
	MIS	All Media

—
 Jeanenne P. Cordero "Jean"
 Office Manager
 Office of Senator Tina Rose Muna Barnes
 Tel: 671-472-3455/6
 Fax: 671-472-3400
 e-mail: jean@tinamunabarnes.com

 **07302013 First Notice.pdf**
 103K

Jean Cordero <jean@tinamunabarnes.com>

Tue, Jul 23, 2013 at 10:03 AM

To: johnlao@jmiguam.com

Cc: Michael Duenas <mjduenas@ghura.org>, fcamacho@ghura.org, David J Sablan <djsablan@guam.net>, Cecile Suda <cecile.suda@gmail.com>, "Gian Christian S. Tenorio" <gtenorio@ghura.org>, Millie <millie.taitano@gmail.com>, Millie Taitano <mtaitano@ghura.org>, Stephanie Flores <sgflores@tinamunabarnes.com>, John Blas <jbias@tinamunabarnes.com>, David Bell <David@tinamunabarnes.com>, Senator Tina Rose Muna Barnes <senator@tinamunabarnes.com>

Hafa adai! Please see attached memorandum of First Notice for confirmation hearing of Mr. John Ilao, Member, GHURA Board of Commissioners. Look forward to seeing you all there! Thank you and have a wonderful day!

July 23, 2013

Memorandum



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

July 23, 2013

Memorandum

TO: Mr. Eric Palacios, Administrator
Guam Environmental Protection Agency

FROM: Senator Tina Rose Muña Barnes

SUBJECT: First Notice of Public Hearing
 Tuesday, July 30, 2013

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Si Yu'os Ma'åse'!

cc:	Sergeant-At-Arms/Protocol/AV MIS	Clerk of the Legislature All Media
cc:	Ms. Conchita Taitano, GEPA	Mr. Roland Gutierrez, GEPA
	Ms. Laura Kanai, GEPA	Mr. Glenn San Nicolas, GEPA
	Ms. Sabrina Sablan, GEPA	Ms. Linda Ibanez, Solid Waste Authority

Chairperson, Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority

Vice Chairperson, Committee on General Government Operations and Cultural Affairs
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I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

July 26, 2013

Memorandum

TO: All Members/All Senators

FROM: Senator Tina Rose Muña Barnes

SUBJECT: Second Notice of Confirmation/Public Hearing
Tuesday, July 30, 2013 – NOTE: Time Change

Hafa Adai! The Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority will be conducting a public hearing on Tuesday, July 30, 2013 at the Public Hearing Room beginning at 10:00 a.m., instead of 9:00 a.m., due to the State Funeral for the late Honorable James H. Underwood, Former Senator. This hearing is scheduled to receive public testimony on the following:

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I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

Page 2

July 26, 2013

Second Notice of Confirmation/Public Hearing

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Si Yu'os Ma'åse'!

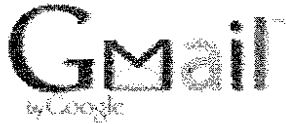
cc:

Sergeant-At-Arms/Protocol/AV
MIS

Clerk of the Legislature
All Media

Chairperson, Committee on Municipal Affairs, Tourism, Housing and Hagatña Restoration and Redevelopment
Authority

Vice Chairperson, Committee on General Government Operations and Cultural Affairs
155 Hesler Place Hagatña, Guam 96910 [Tel: 671-472-3455/6 Fax: 671-472-3400] www.tinamunabarnes.com



Jean Cordero <jean@tinamunabarnes.com>

Second Notice of July 30, 2013 Public Hearing

2 messages

Jean Cordero <jean@tinamunabarnes.com>

Fri, Jul 26, 2013 at 9:16 AM

To: phnotice@guamlegislature.org

Cc: amier@mvguam.com, clynt@spbguam.com, dcrisost@guampdn.com, dmgeorge@guampdn.com, jtyquiengco@spbguam.com, kstokish@gmail.com, life@guampdn.com, mabuhaynews@yahoo.com, mindy@kuam.com, news@guampdn.com, news@spbguam.com, nick.delgado@kuam.com, rlimtiaco@guampdn.com, sabrina@kuam.com, slimtiaco@guampdn.com, Gerry Partido <gerry@mvguam.com>, Jason Salas <jason@kuam.com>, Jon Anderson <editor@mvguam.com>, "mpieper@guampdn.com" <mpieper@guampdn.com>, "officemanager@hitradio100.com" <officemanager@hitradio100.com>, "ricknauta@hitradio100.com" <ricknauta@hitradio100.com>, Telo Taitague <telo.taitague@guam.gov>, Tom Unsiog <sgtarms@guamlegislature.org>, Guam Legislature Clerks Office <clerks@guamlegislature.org>, Stephanie Flores <sgflores@tinamunabarnes.com>, John Blas <jblas@tinamunabarnes.com>, David Bell <David@tinamunabarnes.com>

Hafa adai! Please see attached memorandum of Second Notice for July 30, 2013 public hearing. Please take note of the time change from 9:00 a.m. to 10:00 a.m. due to the State Funeral for the late Honorable James H. Underwood. Thank you and have a wonderful day!

July 26, 2013

Memorandum

TO: All Members/All Senators

FROM: Senator Tina Rose Muña Barnes

SUBJECT: Second Notice of Confirmation/Public Hearing

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Si Yu'os Ma'åse'!

cc: Sergeant-At-Arms/Protocol/AV Clerk of the Legislature
 MIS All Media

—
 Jeanenne P. Cordero "Jean"
 Office Manager
 Office of Senator Tina Rose Muna Barnes
 Tel: 671-472-3455/6
 Fax: 671-472-3400
 e-mail: jean@tinamunabarnes.com

 **Second Notice - July 30, 2013 Public Hearing.pdf**
 105K

Adam Bearce <adam@guamlegislature.org>
 To: Jean Cordero <jean@tinamunabarnes.com>, Yong Pak <yong@guamlegislature.org>

Fri, Jul 26, 2013 at 9:18 AM

Hi. Thanks. Time change has been posted.

[Quoted text hidden]



I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

July 26, 2013

Memorandum

TO: Mr. Eric Palacios, Administrator
Guam Environmental Protection Agency

FROM: Senator Tina Rose Muña Barnes

SUBJECT: Second Notice of Public Hearing
Tuesday, July 30, 2013 – **NOTE: Time Change**

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Si Yu'os Ma'åsa'!

cc: Ms. Conchita Taitano, GEPA
Ms. Laura Kanai, GEPA
Ms. Sabrina Sablan, GEPA
Mr. Roland Gutierrez, GEPA
Mr. Glenn San Nicolas, GEPA
Ms. Linda Ibanez, Solid Waste Authority

Chairperson, Committee on Municipal Affairs, Tourism, Housing and Hagåtña Restoration and Redevelopment Authority

Vice Chairperson, Committee on General Government Operations and Cultural Affairs
155 Hesler Place Hagåtña, Guam 96910 [Tel: 671-472-3455/6 Fax: 671-472-3430] www.tinamunabarnes.com

**Listserv: phnotice@guamlegislature.org
As of June 12, 2013**

aaliadi@guampdn.com
action@weareguahan.com
admin@frankaguonjr.com
admin@guamrealtors.com
admin@leapguam.com
admin@weareguahan.com
aguon4guam@gmail.com
ahernandez@guamlegislature.org
ajuan@kijifm104.com
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I Mina'Trentai Dos Na Liheslaturan Guåhan
Office of The Legislative Secretary
Tina Rose Muña Barnes

**Committee on Municipal Affairs, Tourism, Housing and
Hagåtña Restoration and Redevelopment Authority**
Public Hearing
9:00 a.m., Tuesday, July 30, 2013

AGENDA

- 1. Appointment of Mr. John Ilaog, Member, Guam Housing & Urban Renewal Authority, Board of Directors** – Term: Unexpired term of Commissioner Ricardo Calvo from March 31, 2011 to March 30, 2016
- 2. Bill No. 145-32 (LS) - "An act relative to naming the Malesso Pier Park the "Plasan Beterånon Mansendålon Malesso' (Veteran Sons and Daughters of Malesso Park)" in honor and special recognition of the men and women from Malesso who has served in the U.S. Armed Forces, and in acknowledgement of all Guam Veterans; through adding a new § 849.5.1 to Article 1, Chapter 8, of Title 1, GCA"**–
Sponsors: Frank B. Aguon, Jr., T.A. Morrison, T.C. Ada
- 3. Resolution No. 189-32 (COR) – "Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan for Guam in order to preserve the Lanyon Landfill for generations to come -"** *Sponsors: T.R. Muña Barnes, R.J. Respicio, V.A. Ada, B.J. Cruz, A.A. Yamashita, B.T. McCreadie*



COMMITTEE ON RULES

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CHAIRPERSON
MAJORITY LEADER

Senator
Thomas C. Ada
VICE CHAIRPERSON
ASSISTANT MAJORITY LEADER

Senator
Vicente (Ben) C. Pangelinan
Member

Speaker
Judith T.P. Won Pat, Ed.D.
Member

Senator
Dennis G. Rodriguez, Jr.
Member

Vice-Speaker
Benjamin J.F. Cruz
Member

Legislative Secretary
Tina Rose Muña Barnes
Member

Senator
Frank Blas Aguon, Jr.
Member

Senator
Michael F.Q. San Nicolas
Member

Senator
V. Anthony Ada
Member
MINORITY LEADER

Senator
Aline Yamashita
Member

July 19, 2013

MEMORANDUM

To: **Rennae Meno**
Clerk of the Legislature

Attorney Therese M. Terlaje
Legislative Legal Counsel

From: **Senator Rory J. Respicio**
Majority Leader & Rules Chair

Subject: **Referral of Resolution No. 189-32 (COR)**

As Chairperson of the Committee on Rules, I am forwarding my referral of Resolution No. 189-32 (COR). Please ensure that the subject resolution is referred, in my name, to the respective sponsor, as shown on the attachment.

I also request that the same be forwarded to all Senators of *I Mina'trentai Dos na Liheslaturan Guåhan*.

Should you have any questions, please feel free to contact our office at 472-7679.

Si Yu'os ma'åse!

(1) Attachments

I MINA' TRENTAI DOS NA LIHESLATURAN GUÅHAN
2013 (FIRST) Regular Session

Resolution No. 189-32(COR)

Introduced By:

T.R. Muña Barnes
R. J. Respicio
J.T. Wonpat
V.A. Ada
B.J. Cruz
A.A. Yamashita
B. McCreadie
T. Morrison

Relative to Adopting Zero Waste as a guiding principle for Sustainable Materials Management and Supporting the Creation and Adoption of a Zero Waste Plan For Guam in order to preserve the Lanyon landfill for generations to come.

23 JUL 17 PM 2:34
T.M.B.

1 **BE IT RESOLVED BY THE COMMITTEE ON RULES OF *I MINA'***
2 ***TRENTAI DOS NA LIHESLATURAN GUÅHAN:***
3 **WHEREAS,** I Liheslaturan Guåhan recognizes and acknowledges the clear
4 connection between waste reduction, recycling, resource recovery and beneficial reuse
5 issues and the need to change unsustainable consumption and production patterns
6 while protecting and managing the natural resource base of economic and social
7 development; and
8 **WHEREAS,** I Liheslaturan Guåhan finds that based on recent estimates, the
9 expected life of the landfill will be 35-40 years, with the Military as a customer and 45-
10 50 years without the Military. The life span of the landfill can be extended only with

1 effective implementation of **waste reduction, recycling, resource recovery** and
2 **beneficial reuse programs**; and

3 **WHEREAS**, I Liheslaturan Guåhan recognizes that its work in establishing the
4 Recycling Revolving Fund, Recycling Enterprise Zones at the Port Authority of Guam,
5 and the Guam Beverage Recycling Act of 2010 were all steps towards the eventual
6 establishing of a sustainable zero waste community for Guam; and

7 **WHEREAS**, developing and implementing a zero waste strategy should be
8 measured, evaluated and achieved by utilizing current and accepted methodologies,
9 such as environmental systems management and life cycle analysis, to support science
10 based policies and operations; and

11 **WHEREAS**, Guam's limited and valuable land resource and fragile environment
12 must be preserved and protected. The protection of the environment, both terrestrial
13 and aquatic, stimulation of the economy, and distribution of equity can be achieved by
14 promoting waste reduction, recycling, resource recovery and beneficial reuse through
15 Zero Waste practices in the public and private sectors; and

16 **WHEREAS**, the use of the term "zero waste" includes "Zero Solid Waste", "Zero
17 Hazardous Waste", "Zero Toxics" and "Zero Emissions." The goals of "zero waste"
18 embody the need for a closed-looped waste management system, in which waste is a
19 sign of inefficiency and the entire concept of waste should be eliminated; and

20 **WHEREAS**, waste should be thought of as a "residual product" or simply a
21 "potential resource" for beneficial reuse to counter the basic acceptance of waste as a
22 normal course of events. Zero Waste strategies consider the entire life-cycle of products,
23 processes and systems in the context of a comprehensive systems understanding of our
24 interactions with nature and the search for inefficiencies at all stages; and

25 **WHEREAS**, Zero Waste is a community-based model that aims to eliminate or
26 minimize landfill disposal by the application of simple solutions and sustainable
27 materials management systems that are healthy for our people, and our island; and

1 **WHEREAS**, The Association of State and Territorial Solid Waste Management
2 Officials has endorsed developing a Zero Waste Strategy, a significant component in
3 implementing a comprehensive (waste) materials management program for small
4 island developing states like Guam through both regulatory and cooperative
5 environmental governance; and

6 **WHEREAS**, Because of its mission the Solid Waste Management Authority will
7 have the primary responsibility for implementing the Guam Zero Waste Plan and
8 developing the outreach and educational components required to educate and inform
9 the public; and

10 **WHEREAS**, the Guam Environmental Protection Agency and its Division of Air
11 and Land should work collaboratively with the Solid Waste Management Authority,
12 and the Office of the Governor to synchronize its permitting process so that it will
13 reflect and incorporate Zero Waste principals into all of permitting and monitoring
14 functions and systems; and

15 **WHEREAS**, Zero Waste is a critical stepping stone to other necessary steps in the
16 effort to protect health, improve equity, and reach sustainability. Zero Waste can be
17 linked to sustainable agriculture, permaculture, architecture, energy, industrial,
18 economic and community development; and

19 **WHEREAS**, a Zero Waste strategy supports all three of the generally accepted
20 goals of sustainability, that is, environmental protection as well as economic and social
21 well-being. Environmental protection is enhanced by reducing (ideally to zero)
22 hazardous and solid wastes to nature and by reducing the need for energy generation
23 and hydrocarbon extraction. Economic well-being is improved by enabling
24 organizations to identify inefficiencies in processes, products and services and thereby
25 to find cost-saving solutions to them.

1 **WHEREAS**, Social well-being is enhanced through efficiency improvements that
2 allow more resources to be available for all. In addition, more complete use of "wastes"
3 may additionally create jobs in return logistics and reprocessing activities; and

4 **WHEREAS**, I Liheslaturan Guåhan finds that the concept of "sustainable
5 materials management," within the last several years, has increasingly captured the
6 attention of environmental managers and the public. As recent discussions have
7 focused on energy efficiency, resource conservation, the release of greenhouse gases,
8 climate change and toxins, it has become increasingly clear that the way we manage
9 and use materials, across their full life cycle, has a critical effect on the world's
10 environmental health; and

11 **WHEREAS**, the United States Environmental Protection Agency has described
12 the importance of how we manage materials in its report, Sustainable Materials
13 Management: The Road Ahead (2009). In the report, EPA argued that, to ensure a
14 sustainable society, we need to rethink how we manage materials – and indeed which
15 materials we use by looking at the full life cycle of materials from extraction to
16 production to use to disposal; and

17 **WHEREAS**, I Liheslaturan Guåhan is committed to protecting and enhancing
18 environmental quality now and for future generations; and

19 **WHEREAS**, over one hundred thousand of tons of materials are generated in
20 Guam each year by residents, businesses, organizations, and institutions, and
21 approximately 85% of this amount is sent for landfill disposal; and

22 **WHEREAS**, the placement of materials in landfills can cause damage to human
23 health, wastes natural resources, and irresponsibly transfers liabilities to future
24 generations; and

25 **WHEREAS**, waste prevention, reuse, recycling, and composting are material
26 management options that conserve resources while reducing environmental impacts;
27 and

1 **WHEREAS**, increased recycling, permaculture and composting will increase the
2 cost-efficiency of local publicly supported recycling facilities and programs; and

3 **WHEREAS**, increased recycling saves energy, water, natural resources, reduces
4 air and water pollution, reduces the damage caused by extracting resources from the
5 environment, and reduces the need for landfill facilities; and

6 **WHEREAS**, a resource recovery based economy will sustain, on a per-ton basis,
7 up to ten times more jobs than land filling or incineration, and these jobs will be more
8 productive and meaningful; and

9 **WHEREAS**, increasingly, U.S. and international governments and organizations
10 are adopting the policy that the financial responsibility of collecting, recycling, and
11 disposing of materials belongs with producers and importers; and

12 **WHEREAS**, recognizing that voluntary recycling goals have not, and in all
13 probability cannot, achieve waste elimination; and

14 **WHEREAS**, the Zero Waste philosophy accepts that the earth's ability to support
15 life is finite and that natural resources must be used in the most efficient and
16 sustainable way possible; and

17 **WHEREAS**, the guiding principles of Zero Waste are: managing resources
18 instead of waste; conserving natural resources through waste prevention and recycling;
19 turning discarded resources into jobs and new products instead of trash; promoting
20 products and materials that are durable and recyclable; and discouraging products and
21 materials that can only become trash after their use; and

22 **WHEREAS**, I Liheslaturan Guåhan calls for the creation and implementation of a
23 Guam Zero Waste Plan; and now therefore be it

24 **RESOLVED**, that the Committee on Rules of *I Mina' Trentai Dos Na*
25 *Liheslaturan Guåhan* does hereby, on behalf of the people of Guam, call for the
26 Guam Zero Waste Plan to be designed to achieve the initial goal of increasing waste
27 diversion for the Government of Guam and for the island as a whole, to 60% or better

1 by the year 2016. The ultimate goal of the Guam Zero Waste Plan is to eliminate waste
2 by 2022, thereby preserving the current landfill for generations to come, before having
3 to spend the hundreds of millions of dollars in resources needed to build another
4 landfill, and be it further

5 **RESOLVED**, that the Speaker and the Chairperson of the Committee on
6 Rules certify, and the Legislative Secretary attest to, the adoption hereof, and that
7 copies of the same be thereafter transmitted to the following officials: the President
8 of the Recycling Association of Guam, the Administrator of the Guam
9 Environmental Protection Agency, to the Administrator of the Air and Land
10 Division of the Guam Environmental Protection Agency, to the Administrator,
11 Operations Manager and members of the Board of the Solid Waste Management
12 Authority, to the Special Assistant to the Governor of Guam for the Office of the
13 Military Build Up, to the Western Regional Office of Economic Adjustment, of
14 the Department of Defense, to the Vice President of Matrix Consulting, to the
15 members of the Board of the Association of the State and Territorial Solid Waste
16 Managers, to the Administrator of Region Nine of the United States Environmental
17 Protection Agency, to the President of the Association of Pacific Island
18 Legislatures, to the Pacific Island Regional Recycling Initiative of the Council of
19 Micronesia Chief Executives, to the Director-General of the Secretariat of the
20 Pacific Regional Environment Programme, to the Office of Congresswoman
21 Bordallo, and to the Honorable Edward J.B. Calvo, I Maga'lahaen Guåhan.

**DULY AND REGULARLY ADOPTED BY THE COMMITTEE ON RULES
OF *I MINA' TRENTAI DOS NA LIHESLATURAN GUÁHAN* ON THIS DAY
OF JULY 2013.**

JUDITH T. WON PAT, Ed.D.
Speaker

RORY J. RESPICIO
Chairperson, Committee on Rules

TINA ROSE MUÑA BARNES
Legislative Secretary